

# METHOD AND RELATED APPARATUS FOR DIAGNOSING CROSSTALK WITHIN AN OPTICAL PICK-UP UNIT BY UTILIZING FIRMWARE

## Abstract

A method and a related apparatus for diagnosing crosstalk within an optical pick-up unit by utilizing firmware. The method includes calculating a tracking driving signal and a focusing driving signal according to a tracking error signal and a focusing error signal respectively, adding a noise to the focusing driving signal to form a test focusing driving signal through executing firmware, driving an optical pick-up unit by the tracking driving signal and the test focusing driving signal, and diagnosing characteristics of the pick-up unit through observing the tracking error signal.